

INTERNATIONAL SEARCH REPORT

IB2004/051881

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L29/739
//H01L27/07, H01L29/78, H01L29/732

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, IBM-TDB, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 776 813 A (HUANG T-H ET AL) 7 July 1998 (1998-07-07) column 2, line 46 - column 5, line 48; figures 1-11	1-21
X	WO 00/22678 A (BERLAND V) 20 April 2000 (2000-04-20) page 10, line 23 - page 15, line 11; figures 1,2,6,7 page 15, line 17 - page 18, line 1; figures 5.1-5.16	1-21
X	EP 0 190 931 A (MITSUBISHI ELECTRIC CORP) 13 August 1986 (1986-08-13) page 17, line 21 - page 23, line 8; figures 6,7	1-21
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

20 December 2004

Date of mailing of the international search report

04/01/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 637 898 A (BALIGA B J) 10 June 1997 (1997-06-10)</p> <p>column 7, line 42 - column 8, line 39; figure 3 -----</p>	<p>1-3, 6-10, 12-14, 16,17, 19,20</p>

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5776813	A	07-07-1998	NONE	
WO 0022678	A	20-04-2000	FR 2784503 A1 AU 6206999 A WO 0022678 A1	14-04-2000 01-05-2000 20-04-2000
EP 0190931	A	13-08-1986	JP 61180472 A DE 3666752 D1 EP 0190931 A2 US 4941030 A	13-08-1986 07-12-1989 13-08-1986 10-07-1990
US 5637898	A	10-06-1997	NONE	